

Comparisons of Job Characteristics

Focus Occupation: [Maintenance and Repair Workers, General \(49-9042\)](#)

Associated Occupation: [Maintenance Workers, Machinery \(49-9043\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	21.8	19.3	< Expanded education and/or training may be required
Engineering and Technology	5.7	10.8	10.3	0 Current knowledge level may be sufficient
Building and Construction	4.0	10.3	14.3	>> Current knowledge level is likely more than sufficient
Design	5.2	9.2	11.7	> Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Equipment Maintenance	3.5	11.9	12.7	0 Current skill level may be sufficient
Operation Monitoring	6.6	11.9	8.4	<< Extensive development of skills in this area may be required
Repairing	3.4	11.8	12.3	0 Current skill level may be sufficient
Troubleshooting	4.5	11.0	10.0	< A higher skill level may be required
Operation and Control	5.4	10.6	7.6	<< Extensive development of skills in this area may be required
Quality Control Analysis	5.9	10.0	9.8	0 Current skill level may be sufficient
Equipment Selection	3.3	8.5	9.5	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 83			
Focus Occupation: Maintenance and Repair Workers, General (49-9042) Associated Occupation: Maintenance Workers, Machinery (49-9043)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Arm-Hand Steadiness	6.8	10.7	10.1	0	Current ability level may be sufficient
Visualization	7.5	10.0	11.0	>	Current ability level is likely sufficient
Reaction Time	4.8	8.4	6.2	<<	Extensive improvement in abilities may be required
Static Strength	5.0	8.4	9.8	>	Current ability level is likely sufficient
Extent Flexibility	4.8	7.9	9.2	>	Current ability level is likely sufficient
Rate Control	3.8	7.1	3.4	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 92
Focus Occupation: Maintenance and Repair Workers, General (49-9042) Associated Occupation: Maintenance Workers, Machinery (49-9043)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Adjust or set mechanical controls or components	69	
Apply cleaning solvents	41	
Construct, erect, or repair wooden frameworks or structures	73	
Cut, shape, fit, or join wood or other construction materials	58	
Erect scaffold	56	
Fabricate sheet metal parts or items	80	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Inspect machinery or equipment to determine adjustments or repairs needed	42	
Install equipment or attachments on machinery or related structures	48	
Lubricate machinery, equipment, or parts	59	
Maintain or repair industrial or related equipment/machinery	39	
Maintain repair records	65	
Move or fit heavy objects	8	
Observe or listen to machinery or equipment operation to detect malfunctions	81	
Operate crane in construction, manufacturing or repair setting	76	
Operate hoist, winch, or hydraulic boom	34	

Perform safety inspections in industrial, manufacturing or repair setting	32
Read specifications	23
Read work order, instructions, formulas, or processing charts	9
Repair or replace malfunctioning or worn mechanical components	62
Requisition stock, materials, supplies or equipment	54
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use basic carpentry techniques	62
Use control or regulating devices to adjust or maintain industrial machinery	89
Use hand or power tools	2
Use hand or power woodworking tools	65
Use high voltage apparatus	76
Use knowledge of metric system	39
Use measuring devices in repairing industrial or heavy equipment	84
Use precision measuring devices in mechanical repair work	61
Use pressure gauges	76

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 84

Focus Occupation: Maintenance and Repair Workers, General (49-9042)
Associated Occupation: Maintenance Workers, Machinery (49-9043)

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Cutting tools	18
Dispensing tools	6
Fall protection	16
Forming tools	2
Holding and clamping tools	3
Industrial trucks	10
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Machinery for working wood and stone and ceramic and the like	12
Measuring and layout tools	3
Metal bending and forming machinery	17
Pneumatic tools	8
Power tools	2

Respiratory protection	6
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Tool attachments and accessories	12
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.